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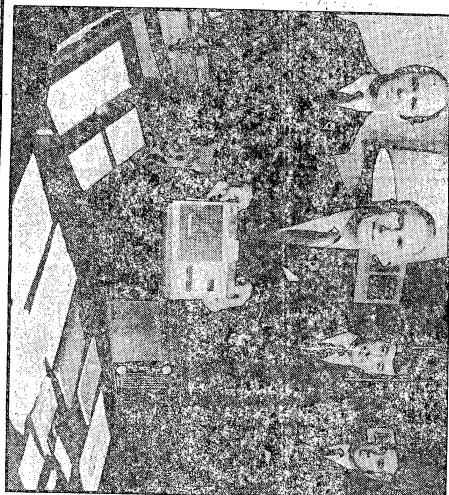
services to the Russians. In June 1982 he confessed his spying activities. Nick Davies

In January 1968 Geoffrey Prime decided to 'make something of himself' and offered his

Richard Norton-Taylor and Harold Jackson investigate the background to the affair

IGHT: police officers who led the investigation, with items from Prime's spying kit. Left to right: et. Chief Supt. David Cole; Mr Robert Cozens (West lercia Police Chief Constable); Det. Chief Insp. eter Picken and Det. Supt. Alan Mayo. Below: akley Government Communications Headquarters t Cheltenham. Far right: Sir Brian Tovey, the irector of GCHQ.

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William Strong

Direct abolition of private

Labour change

By Colin Brown,
Political Staff

Labour health spokesmen have abandoned hope of legislating directly to abolish private health bractice. Although they are committed to the objective of abolishing the private health service, they have discovered that it would be implossible, practically speaking to introduce legislation under a Labour Government to carry out their wishes in one bit.

A Labour health spokesmen party is now considered of carrying out the endorsed by the part conference to abolish medicine.

They will try to private consultants NHS by offering the work wholly within sector more money, also try to remove from the NHS, some Barbara Castle achieve when she to Secretary. They will be a supplied to the part conference to abolish medicine. in one bill.

one bil. Secretary. They will A Labour health working draw up plans for t

Civil Service unic

By Richard Norton-Taylor senting most low-pr

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agent on the ground/has who s going to the party at the tavern tonight who server times it's very tense. You get a fighter plane, maybe, leaving a part, two in the morning and two in the morning and neading for Plane and you agent on the ground has agent on the ground has

lists, The watch all military and civilism and civilism aircepting voice communication. The Russian pilots know you give you gift of backchat, say some thing cheeky. You pick up all thing cheeky. ing what they pick up there "There are about 250 RAF staff and some civilians as well — linguists in Morse species, Hungarian, morse species and salists. He degraphy species is staffs They watch all military lists They watch all military

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HOME

GEOFFREY PRIME caused panics in Whitehal and fury in Washingto because, with very little ski and the greatest of ease, has made a nonsense of the biggest, most ambitious, an most expensive operation. most expensive operation i. the history of espionage.

At the Government Com munications Headquarters is Cheltenham, where Prim used to work, intelligence officers use a massive batter of technological aids to spi on the military, commercia and political life of amon others the Russians, the Chinese, the Northern Irisi and even the Americans.

The Cheltenham officer had details of the Russian plan to invade Afghanistan three weeks before the in vasion took place and passer on the information to govern ments who then claimed to be surprised when the Rus stans moved.

They detected the first tre mors of the Cuban missile crisis a clear 12 months before it erupted as an international incident. The base constantly monitors and updates the deployment of dates the deployment of Soviet and Warsaw Pact forces on land, air and sea.

Prime worked his way into the heart of this vast exercise in global eavesdropping. threatening the whole logic of the operation. But the implications of his penetration go even further, since the Cheltenham base has two other, equally important functions.

It is in many respects the brain of the British contingency plan for dealing with a nuclear attack. Officers there need to know the day-by-day location of all NATO forces, with whom they may need to communicate, as well as the details of early warnings and states of alers — all critically kensitive information. sensitive information.

It is also an important communications channel through which M16 can con-tact its informants and agents in Eastern Europe or the Soviet Union by transmitting on pre-arranged wave-lengths — information which could lead to the identifi-cation of those agents.

These three functions give GCHQ a unique importance. The fact that the base is jointly run and funded with the Americans; the Canadians and the Australians lends a further dimension to its significance.

Bithard Merton-Taylor

Civil Ser to West satellit

vasion. On December 7, ation available before th gigantic amount of int whether it is **b**eliev**ed.** Afghanistan, there *n* information gets to them government is not how

just didn't believe it. ing the Argentine ca Apparently, in this case apparent that we were disinformation, Take Falklands, It is pert than people can visualis great deal of it is dross iel — notismioini do Professor Erikson !

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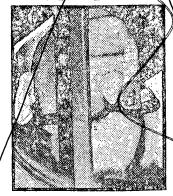
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races. We were on standard for a month beforehand, for a month before the was eding to happen. Then all the Western governments turn round afterwards and piecal incorpose. That's nobles, complete publish. Ruesians invaded Czechoslo-"I was in Berlin when the

gen interfepted Reuters. ing the movements of planes, logging grid references, checking morse and other people desired well as theirs. We tollowed our own traffic as well as theirs. We tollowed setting the control of the contr "Tifere were people track-

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gaol sentence for spying who is serving a 21-year KAL Set. Doug/Britten,



fortune, There are about 100 ment there must have cost a where the eavesdropping is conducted. It's a very sophi-sticated operation. The equipon the edge of the airfield A former employee of one list find the two hangagars

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agent on the ground has nov bas baslog 101 gaibest se sizeuff ni bleft is reuben and ni owi the tayern tonight.
"Other times it's very
rense. You get a fighter
plane, maybe, feaving a partikinds of personal stuff about who's going to the party at tines, they water an amount to an allowing the sand civillan aircreaft (reacking them and intercepting your pilots know you're listening. "Sometimes they give you a bit of backenat, say something cheeks, You pick up all king cheeks, You pick up all king of bersonal stuff about Polish, Hungarian, morse 5pe-cialists, telegraphy specia-lists, They watch all military lists, the match all military ing what they pick up there.
"There are about 250 RAB.
staff and some civilians se and some civilians sessin, well — linguists in Russian, well — linguists in morse specifich Unrearing

signals intelligence. It's amarno planes it's pure sigint highly sensitive, It's an RAF place but there's no runway, described his work to the Guardian . That place is worked at a listening post One radio operative who

and process information. Britain a dozen stations collect Kong, Darwin in Australia, and in Mauritius, Cibraltar, Malta, Cyprus, Ascension Island, and Botswana, Inside Island, and state of the control of the contro and Little Sai Wan in Hong long range listening posts at Sinop in Turkey, Tai Mo Shan which they pick up.
Outside Britain GCHQ runs

wery complete picture from all sorts of information order of battle, They have b Trained GCHQ staff, said:
"They know a lot about
Soviet and Warsaw Pact University, and who has also ary strategy and communitho lectures in Soviet miliail of all military forces.
Professor John Erikson,

op pue doilisodsip joexo ou rovide a daily up-date of paties of battle ltra short wave intercepts to The stayons use radio serches, VIV intercepts, a pecialised radar tracking vicinities of the SAMMP, and vicinities of the service of the serv

oiper son suoners oul. Between the wars, jealousy such as the control of the cont

RIGHT: police officers who with items from Prime's sp Det. Chief Supt. David Cole, Mercia Police Chief Consta Peter Picken and Det. Sup Oakley Government Comm at Cheltenham. Far right: director of GCHQ.



Office to take over cryptography itself.

Their Government and Cypher School in Bletch-ley decoded a stream of Russian messages until 1927 when the Prime Minister, Stanley Baldwin, arrogantly published four intercepted published four intercepted telegrams, so tipping off Moscow about Bletchley's success. Moscow changed its coding system and its high-grade communications have not been cracked since.

During the First World War, the Americans relied for their code-breaking on a private team of analysts who had been recruited by an eccentric businessman to eccentric scour Tudor literature in search of a cypher which would show that Francis Bacon had written the works of Shakespeare.

Between the wars, jealousy

worst of the rivalry and Approved For Release 2007/12/14: CIA-RDP96B01172R000300030014-1 competence. The four signal nave changed their telemetry ories to the agreement, system so that the information of the agreement, system so that the information of the rivalry and Approved For Release 2007/12/14: CIA-RDP96B01172R000300030014-1 competence. The four signal nave changed their telemetry fully laden.

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"They monitor the information of the rivalry and Approved For Release 2007/12/14: CIA-RDP96B01172R000300030014-1 competence. The four signal nave changed their telemetry fully laden.

"A red light comes on on "They monitor the information of the rivalry and their telemetry fully laden." Britain, the United States, Canada and Australia, carved ip the world into zones for he collection of material.

Britain's GCHQ looks after nost of Europe, the Soviet Jnion east of the Urals, the vhole of Africa and China. Canada's Communications security Establishment takes ome of Europe and the north of the Soviet Union.

Australia's joint Intelli-Organisation deals with South-east Asia, the south Pacific and parts of the Indian Ocean. The Jnited States National Securty Agency deals with every-hing else, Internal GCHQ iocuments, used to train recuits, put the American NSA done at the top of the hierirchy.

The NSA runs a vast organisation from its base at ort Meade, Maryland, but it needs allied co-operation. A nuirk in the way that radio vaves travel from some European transmitters, for example, means they can be ecceived in eastern Canada, out not in Britain.

The NSA's job, as defined y the National Security by the National Security Council's Intelligence Direclive No, 6 is "the intercepand processing loreign communications passed by radio, wire or other electromagnetic means and the processing of foreign encrypted communications, however transmitted".

THE RESERVE

In operational terms, that instruction means that the Americans in consort with their three partners have set up a global surveillance composed of layers of intercep-

The most powerful and sophisticated layer — and the one where Prime may have done the most damage - is the use of communication satellites, particularly the series of four "Rhyolite" satellites.

These satellites - fully publicised and discussed in the USA - intercept microwave communications, usually longdistance telephone calls and radio links and also telemetry signals - the streams of high frequency digital information by which a missile reports back to its earth station every aspect of its performance.

The first Rhyolite satellite was launched on March 6, 1973, into a geosynchronous orbit 22,800 miles over the Horn, of Africa, from where it can watch the intercon-inental ballistic missiles being tested at Tyuratam, in Kazakhstan, and the SS16s and SS20s at the Plesetsk missile base. A second Rhyolite was launched on May 23, 1977, at the same height over Borneo to intercept Chinese and Soviet military communication and radar, and to monitor Soviet missiles being tion is taped on the missile and ejected back to Earth, instead of being transmitted back to base on a high frequency of the type which Rhyolite intercepts.

Although Rhyolite is seen by the intelligence com-munity as "the ultimate bug," it is by no means the only satellite used for interception. The Big Birds, which orbit at between 90 and 100 miles, can photograph a car number plate and locate underground installations with their infra-red detectors.

Ferret satellites map Soviet radar systems; 949s have an infra-red sensor to detect rocket plumes and Vela detectors to locate surface nuclear explosions; 647s over the Indian Ocean and the Panama Canal form an early warning net against submarine-launched missiles.

This array of satellites purpose built for thousands of millions of pounds shoots information back to tracking stations which are run by any of the four partners to the 1947 agreement. It is processed and much of it is pooled with in-tercepts from other sources.

The second layer of intercepts is a network of longrange listening stations, devoted mainly to tracking the movement of Soviet and Warsaw Pact forces. It is a very thorough operation.
"They track everything that moves — from a cup of tea to an atom bomb," said one man who has worked in several of the stations.

The stations use radio searches, VHF intercepts, a specialised radar tracking system called SWAMP, and ultra short wave intercepts to provide a daily up-date of the world "order of battle" the exact disposition and detail of all military forces.

Professor John Erikson, who lectures in Soviet military strategy and communications at Edinburgh cations at Edinburgh University, and who has also trained GCHQ staff, said: "They know a lot about Soviet and Warsaw Pact order of battle. They have a warve complete micture from very complete picture from all sorts of information which they pick up. Outside Britain GCHQ runs

long-range listening posts at Sinop in Turkey, Tai Mo Shan and Little Sai Wan in Hong Kong, Darwin in Australia, and in Mauritius, Gibraltar, Malta, Cyprus, Ascension Malta, Cyprus, Ascension Island, and Botswana. Inside Britain a dozen stations collect and process information.

One radio operative who worked at a listening post described his work to the Guardian: "That place is highly sensitive, It's an RAF place but there's no runway, no planes. It's pure sigint signals intelligence. It's amazing what they pick up there.
"There are about 250 RAF

"A red light comes on on your radio set and everyone in the room stands round watching this fighter. Everything else stops. You get that away to Cheltenham as fast as possible. There's also a red phone there which goes through direct to Downing Street for something really

At another base a staff of British and American civilians produce special transcripts of the conversation of Russian pilots to try to dentify regional accents — a clue to the origin of their unit. They also keep a master list of all names mentioned, as well as noting jokes and references to other units and aircraft. It all helps to build up a picture of Soviet military capability. Information from the satel-lites and the long range lites and the long range listening stations is supple-mented by a third layer of intercepts from short range stations, grouped along fron-tiers with the Warsaw Pact countries, the Soviet Union and China.

Most of the work at this level is radio eavesdropping. The linguists are given special training in Russian obscenities to allow them-to follow every detail of the radio traffic. So advanced is their linguistic ability that they compile their own dictionaries tionaries.

A former employee of one listening post described the routine inside the two hangars on the edge of the airfield where the eavesdropping is conducted. "It's a very sophi-sticated operation. The equipment there must have cost a fortune, There are about 100



RAF Sgt. Doug Britten. who is serving a 21-year gaol sentence for spying

staff: they're RAF people, but the whole thing is run by GCHQ.

"There were people tracking the movements of planes, logging grid references, checking morse and other people taking voice communi-cations. We followed our own traffic as well as theirs. We even intercepted Reuters.

"I was in Berlin when the Russians invaded Czechoslovakia. We were on stand-by-for a month beforehand, working double shifts. We knew it was going to happen

.. tant area," said Professor Erikson.
"They monitor the internal traffic of the Soviet Union, using some very sophisticated equipment. It's largely an American operation.'

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The object is to monitor "indicators" of the state of the country in search of clues to policyp, particularly in the military field.

Professor Erikson "The indicator business is very important. At one time there may be up to 200 indicators to tell you whether a state has warlike intentions. By no means all these indicators are military. They cover all aspects of the social, political, economic and military competence of a modern state."

It was these sort of internal indicators which alerted the GCHQ network to the Cuban missile crisis a year before it broke publicly in October, 1962. "One of the first indicators of that was in the autumn of 1961, said Professor Erikson.

"There was a shortage of bunkering fuel for ships in the north of the Soviet Union then, around March, 1962, there was alot of commercial traffic showing strange shipping movements in the south near Odessa, plus a lot of unusual radio traffic between Russia and Cuba.

"You can see that something is developing and then one small indicator will one sman mulcator min bring the whole picture together and close it off. That's why the internal indi-cators are so important." cators are so important.

A lot of the information is pooled between the four partners, although it is partners, although it is known that the American NSA has a special classifi-cation for some papers, cation for some papers, which are marked "No Foreign" to stop them being shared with the partners.

From Cheltenham, GCHQ sends processed information to Whitehall for the daily meetings of the Current Intelligence Groups; which meet every morning to review up-to-date intelligence assessments, ments, medium-term prognoses, and reports on sudden changes in indicator patterns.

There is a similar daily meeting in Washington. On a weekly basis, the director of GCHQ, Sir Brian Tovey, tra-vels to London by train to attend the Joint Intelligence Committee Meeting. It is common ground among those who have worked with GCHQ that it is handling so much raw information that it is often unable to process and assess it accurately while it is still useful.

This delay, together with the ever-present possibility that an infiltrator such as Prime may be allowing the Russians to produce disinformation, may explain the recurrent charge that Western the staff and some civilians as mountains in eastern Russia. well—linguists in Russian, Since then, two other Polich Hungarian as Rhyolites have been laung Approved For Release 2007/12/14: CIA-RDP96B01172R000300030014-1 aid: governments fail to act on the material which has been

- three weeks before varion — there were photographs of trucks on the road, ports.

Although the four ments resolutely readmit it, it is clear their eavesdroppig aimed solely at decla mies. They eavesd allies on domestic mies. and even on each oth

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Washington and Lon Earlier this yea were reports in Can the NSA had interce decoded a message Ottawn government embassy in Washing reports were neith firmed nor denied.

In the late 1970s, was caught interver ectly in a union di Australia which was up the supply of ecto an NSA base i Springs.

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This mutual suspi not prevented th partners co-operati efforts to turn their lance network inw their own citizens. effort to evade the striction on eavesdro American citizens, t simply recyuited GCI the job for them.

In his book, Puzzl recently published United States, Jam ford published inter documents which rec GCHQ intercepted t for the Americans as Operation Minaret, gramme of surveill radicals, including Fonda and black lead

Fonda any black lead
For the British,
surveillance has a sp
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Ireland. Professor
said: "We intercalles, everybody's trailing in the a lot
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The sheer size an ordinary political sig of the earesdropping have not stopped a partner Government taking every possible prevent their citization what the doing. Essimates of involved in GCHQ at ham range from 20,000. Essimates of start at hundreds lions of pounds a yego as high as £500 m "Modern militar

"Modern militar rations are not to weapons," said I

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- three weeks before the invasion — there were satellite photographs of Russian trucks on the road, radio re-

Although the four governments resolutely refuse to admit it, it is clear now that their eavesdroppig is not aimed solely at declared enemies. They eavesdrop on allies on domestic citizens and even on each other.

Officials in Washington publicly admitted last month that the Pentagon had been that the Pentagon had been secretly assessing the intelligence capacity of Canada and other Western allies, but they denied allegations in Canadian newspapers that this amounted to spying. this amounted to spying. According to Reuters, who claim to have obtained a secret Congressional report, the American NSA has been routinely spying on confidential communications be-tween British diplomats in Washington and London.

Earlier this year there were reports in Canada that the NSA had intercepted and decoded a message from the Ottawa government to its embassy in Washington. The reports were neither confirmed nor denied.

In the late 1970s, the CIA was caught intervening directly in a union dispute in Australia which was holding up the supply of equipment to an NSA base in Alice Springs.

This mutual suspicion has prevented the four partners co-operating efforts to turn their surveil-lance network inwards on their own citizens. In an effort to evade the legal re-striction on eavesdropping on American citizens, the NSA simply recruited GCHQ to do the job for them.

In his book, Puzzle Palace, recently published in the United States, James Bam-ford published internal NSA documents which record how GCHQ intercepted telegrams for the Americans as part of Operation Minaret, a pro-gramme of surveillance of radicals, including Jane For the For the form of the form the fo

For the British, domestic surveillance has a special re-levance because of Northern Ireland. Professor Erikson said: "We intercept our alhes, everybody's traffic. But I imagine that a lot of GCHQ concentrated on Northern Ireland.

The sheer size and extra-ordinary political significance ordinary pointers significantee of the eavesdropping network have not stopped the four partner Governments from taking every possible step to prevent their citizens discovering what they are overing what they are doing. Estimates of the staff involved in GCHQ at Cheltenham range from 6,000 to 20,000. Estimates of the cost start at "hundreds of millions of pounds a year" and go as high as £500 millions.

spies. One of them, RAF Sergeant Doug Britten, is still in prison serving a 21-year sentence for soying for the Russians from 1962 to 1968 at listening bosts in Cyprus, and Britain.

Details of the damage done by Britten were kept secret at his trial, but a man who worked with him at Digby has told the Guardian:
"There was the biggest flap ever, just after the Cuban crisis in 1962, because the Russians suddenly changed

everything.

"After a period of years and years when you had been able to tune in knowing the right time and the right frequency, you tuned in and there was nothing there. That was boug Britten. He had told them exactly what frequencies and call signs and codes we knew about, so they changed the lot."

Britten was recruited by a Soviet diplomat, Alexander Ivanovited Borisenko, who approached him in the Kensington Science Museum, introduced himself as "Yuri", and started talking to him about a mateur radio, Britten's hobby.

Yuri started to buy low-grade information from Britten, philographed the paythe right time and the right

grade information from Britten, phiographed the payments and then blackmailed him for higher-grade material. Britten used a camera, disguised as a cigarette case, to photograph documents at Righy and bhar cape with Rigby, and beer cans with false bottoms to pass on the

negatives.

Unlike Prime, Britten was caught by the internal GCHQ security s as tem which noticed that be was living beyond his means. A report by the Security Commission concluded, perhaps optimisti-cally, that his base reflected no security weakness.

no security weatness.

During the period of Britten's espionage, a corporal with the army signals unit at Teufelsberg in West Germany, Brian Patchett, defected to East Germany taking still more GCHQ secrets with him Apart from Prime, Britten and Patchett in the GCHQ complex, the Russians have been well served by infiltrators in the American National Security Agency, which is so tight and Agency, which is so tight and secretive that it is known colloquially No Such As

Agency
In 1960, two NSA intelligence analysis, Vernon Mitchell and Hill Martin, defected to the boviet Union where they held a press conference, exposing the NSA's activities and, in particular, the habitual interception of

activities and, in particular, its habitual interception of its allies' communications.

In the backwash of their defection, 26 other NSA employees lost their jobs in "a purge of sexual deviants" inspired by the "fact that US security officers believed that the defectors might have been homosexual. Three years later in 1963, another NSA employee, a cryptologist named Vidtor Jiamilton, defected to Moscow. Again, the Russians allowed him to nub/12/14: CIA-RDP96B011

